

TP-LINK®

User Guide

TL-PA251

**AV200+ Multi-Streaming Powerline Adapter With
AC Pass Through**



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CE Mark Warning



This is a class B product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.

Important Safety Instructions

1. Do not open this product or attempt to service it; it may expose you to dangerous high voltage or other risks.
2. Do not operate this product near water.
3. Do not place or operate this product near a radiator or a heat register.
4. Do not expose this product to dampness, dust or corrosive liquids.
5. Do not connect this product or disconnect it from a wall socket during a lightning or a thunderstorm
6. Do not block the ventilation slots of this product, for insufficient airflow may harm it.
7. Do not put anything on this product.
8. Plug this product directly into a wall socket (100Vac~240Vac). Do not use an extension cord between this product and the AC power source.
9. When plugging this product into a wall socket, make sure that the electrical socket is not damaged, and that there is no gas leakage.
10. Place the connecting cables properly so that people won't stumble or walk on it.
11. This product should be operated from the type of power indicated on the marking label. If you are not sure of the type of power available, consult the qualified technician.
12. Unplug this product from the mains and refer the product to qualified service personnel for the following conditions:
 - If liquid has been spilled on the product
 - If the product has been exposed to rain or water
13. Unplug this product from the wall socket before cleaning. Use a damp cloth for cleaning. Do not use liquid cleaners or aerosol cleaners.
14. The specification of the fuse is **T2.5AL250V**. To avoid damage, please do not change the fuse.
15. The Operating temperature is 0°C~40°C (32°F~104°F).
16. The Storage temperature is -40°C~70°C (-40°F~158°F).

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Chapter 1 Introduction

Congratulations on your purchase of this outstanding Powerline Adapter. This device is an AV200+ Multi-Streaming Powerline Adapter With AC Pass Through which transforms your house's existing electrical wiring into a ubiquitous networking infrastructure. Simply plug this AV200+ Multi-Streaming Powerline Adapter With AC Pass Through into an ordinary AC power outlet which will easily extend your Cable/xDSL broadband connection or existing Ethernet (LAN) network to any other electrical outlet in any room of a house without the need of any new cable.

This Powerline Adapter supports up to 200Mbps data rate over the existing household electrical circuit. With the data rate of 200Mbps, full multimedia application can easily be supported throughout the whole house in addition to Internet access. This Powerline Adapter uses the existing power lines installed in a home as a path to transmit digital data, voice, audio and video between devices.

To ensure data communication's security and multimedia applications, this Powerline Adapter supports built-in 128-bit AES encryption and Quality of Service (QoS) features.

The new Powerline Adapter TL-PA251 from TP-LINK provides extra convenience and better performance for your home network with its integrated electrical socket and mains filter. The common problem of wasting an electrical outlet is solved and additional terminal devices or multiple sockets can be connected to the adapter just like to a normal wall socket. What's more, the data transmission in the network can be significantly improved by the integrated mains filter. With minimum setup, you can install and use this Powerline Adapter within minutes. Moreover, the adapter provides two useful functions.

1. Existing connection with a new unassociated device added via the **Pair** button.
2. Reset to default setting via the **Management Utility**.

A. System Requirement

- a) At least two AC 100V ~ 240V power outlets with standard home power wiring
- b) A computer with the following:
 - Operating System with TCP/IP installed
 - Pentium III compatible processor and above
 - Ethernet LAN card installed with TCP/IP protocol
 - 64 MB RAM or more
 - 50 MB of free disk space (Minimum)
 - CD-ROM Drive

B. Package Contents

The AV200+ Multi-Streaming Powerline Adapter With AC Pass Through package contains the following items:

- One AV200+ Multi-Streaming Powerline Adapter With AC Pass Through (There are two AV200+ Multi-Streaming Powerline Adapter With AC Pass Throughs in Starter Kit)
- One CAT-5 Ethernet Cable (There are two CAT-5 Ethernet Cables in Starter Kit)
- One Resource CD (Utility / Manual)

If any of the above items are damaged or missing, please contact your dealer immediately.

1.1 LED Indicator

The LED indicator displays information about the device's status.



Item	Status	Indication
 Power LED	Off	Power is off.
	On	Power is on.
	Flashing	The Adapter is in power-saving Mode.
 Powerline LED	Off	The adapter isn't connected to any powerline network or is in power-saving mode.
	On	The adapter is connected to a powerline network.
	Flashing	The adapter is transferring data.
 Ethernet LED	Off	The Ethernet port is connected, but there is no data being transferred.
	On	The Ethernet port is linked, but there is no activity.
	Flashing	Data is being transmitted through the Ethernet port

Note:

Five minutes after the device connected to the Ethernet port of the Homeplug is powered off, the Homeplug will switch to power-saving mode automatically. In power-saving mode, the Homeplug cannot be accessed via the electrical wiring, but its integrated electrical socket can supply the power normally. As soon as the device connected to the Homeplug is switched on again, your Homeplug will leave the power-saving mode once the three LEDs flash simultaneity.

1.2 Physical Interface

There are four physical interfaces on this Powerline Adapter.



Interface	Description
Ethernet Port	It is a 10/100Mbps Ethernet port on the AV adapter for connecting it to the PC or the broadband device with the network cable.
Power Plug*	A Power Plug connected to any 100V ~ 240V AC power socket
Pair Button	Pair buttons are used to secure a powerline network. To secure your network, please follow the steps below. Firstly, plug in a new adapter, and press its pair button for 3 to 8 seconds; then plug in another adapter and press its pair button for 3 to 8 seconds as well. The two buttons should be pressed within 2 minutes of each other. After that, wait about 60 seconds so that the two adapters can finish connecting.
Integrated Electrical Socket	The integrated electrical socket allows additional devices or multiple sockets to be connected to the adapter just like to a normal wall socket. No electrical socket is lost.

* The provided power plug may differ from the picture due to different regional power specifications. Here we take the EU version of this product as an example.

Note:

1. If you press the Pair button for more than 10 seconds, the Powerline Adapter will leave the network which it is associated with and its network name assumes a random value. The Power LED turns off when it disconnects from the Powerline network.
2. For detailed information about the Pair button, please refer to [Chapter 5 Advanced Feature:How to Use the Pair buttons](#)

Chapter 2 Connecting Mechanism

2.1 Introduction

The Powerline Adapter supports up to 200Mbps data rate. With this high speed connection rate, this Powerline Adapter allows you to set up a high speed home network by using your home existing electrical wiring. Simply plug this Powerline Adapter into an ordinary power outlet to extend your Cable/xDSL broadband connection or existing LAN network to any other electrical outlet in any room of your house.

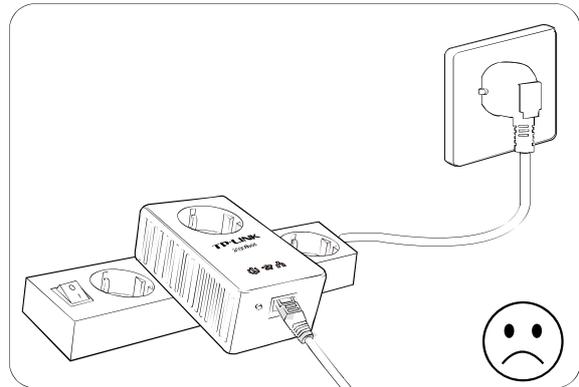
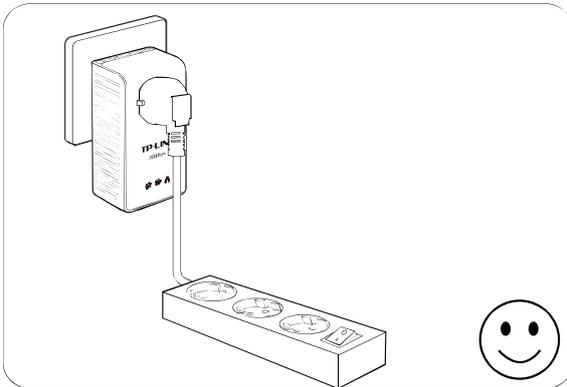
Take notes that this Powerline Adapter works in pairs. You need to plug one Powerline Adapter into a power outlet for each computer and connect the Powerline Adapter to the computer's LAN card with Ethernet cable; you will also need another Powerline Adapter connected to your Cable/xDSL broadband so as to extend your broadband connection or Internet surfing. With clean power line, the distance between two Powerline Adapters can reach 300 meters at lease, but the actual distance may vary due to the environment.

Section below describes the connection instructions and hardware connection mechanism.

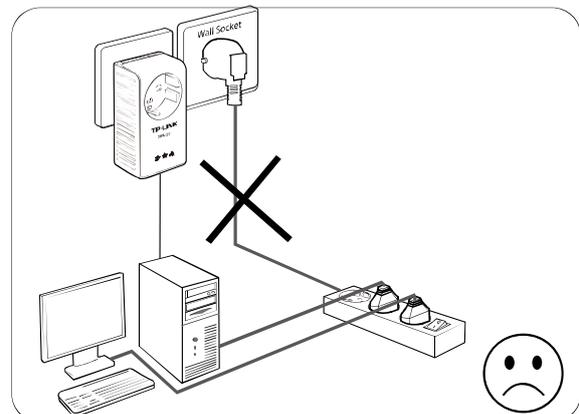
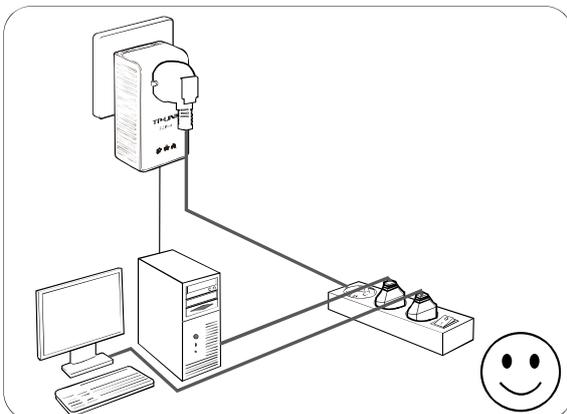
2.2 Connection Instructions

To ensure the optimum performance of the Powerline Adapter and significantly improve the transmission capacity of the network, we recommend that you comply with the following connection rules:

- Plug the Powerline Adapter directly into a wall socket but not the multiple sockets.



- To take full advantage of the filter function of the Powerline Adapter and to improve data transmission in the network, always plug the multiple sockets into the integrated electrical socket of the Powerline Adapter.



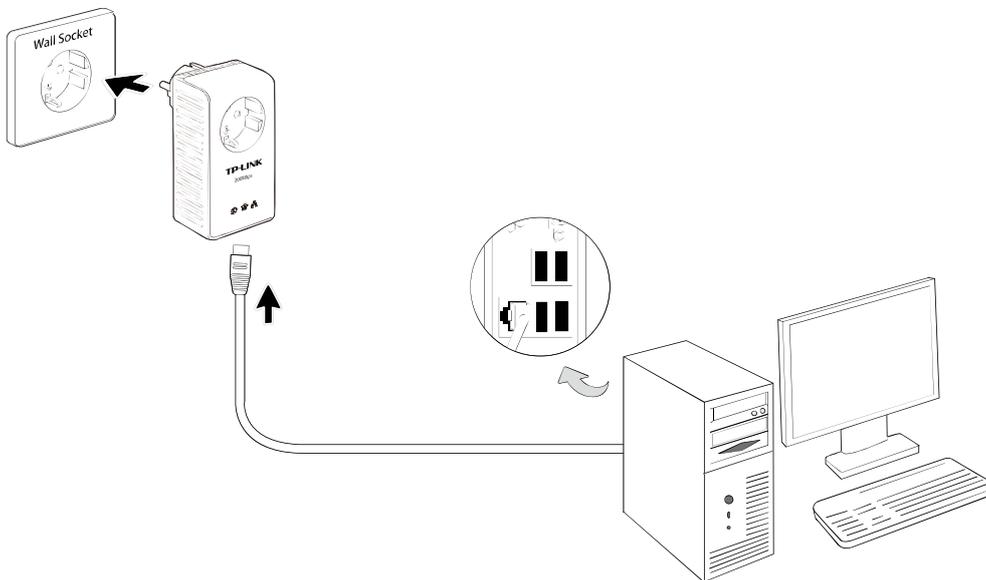
2.3 Hardware Connection – Computer

For those computers you wish to be networked by Powerline Adapter, each of the computers must be properly connected with a Powerline Adapter through an Ethernet (RJ-45) cable.

Following are the steps to properly connect the Powerline Adapter to your computer:

1. Connect one end of the provided Ethernet (RJ-45) cable to the Powerline Adapter's Ethernet port.
2. Connect the other end of the Ethernet (RJ-45) cable to you computer's LAN port.
3. Plug the Powerline Adapter into a wall socket next to the computer.
4. Turn on your computer.
5. Check and confirm that the Power LED  and Ethernet LED  on the Powerline Adapter are **ON**.

The hardware connection mechanism is shown below:



 **Note:**

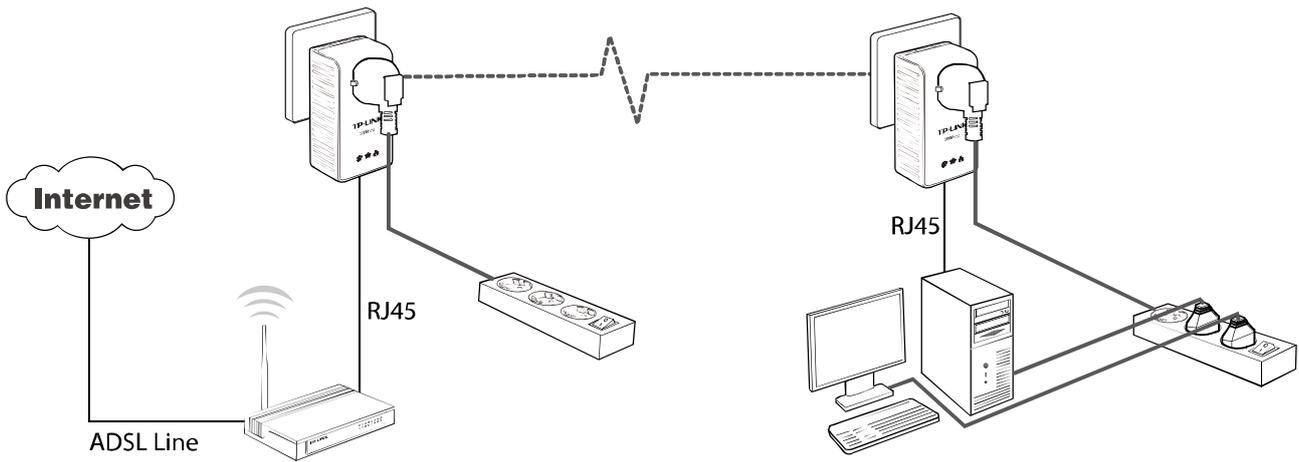
Do not connect the Powerline adapter to an extension lead, power strip, extension cord or surge protector as these may degrade the network performance.

2.4 Hardware Connection – Internet

This section describes how to connect the Powerline Adapter into your existing ADSL broadband connection via ADSL Ethernet port. Follow the procedures described below to connect the Powerline Adapter to your ADSL broadband connection:

1. Connect one end of the provided Ethernet (RJ-45) cable to the Powerline Adapter's Ethernet port.
2. Connect the other end of the Ethernet (RJ-45) cable to an available Ethernet port of your ADSL broadband Router.
3. Plug the Powerline Adapter into a wall socket next to the computer.
4. Turn on your computer.
5. Check and confirm that the Power LED , Ethernet LED , and Powerline LED  on the Powerline Adapter are **ON**.

The hardware connection mechanism is shown below:



Note:

Where the MAINS plug or an appliance coupler is used as the disconnected device, the disconnect device shall remain readily operable. The idle wall sockets or electrical outlets in your household electrical circuit can be used normally without interference from the network.

Chapter 3 Installing Management Utility

Please verify that no other Powerline Adapter or any Encryption Management Utilities are installed before installing the provided software. If other Powerline Utilities are installed, uninstall them and restart your personal computer before installing this provided software.

 **Note:**

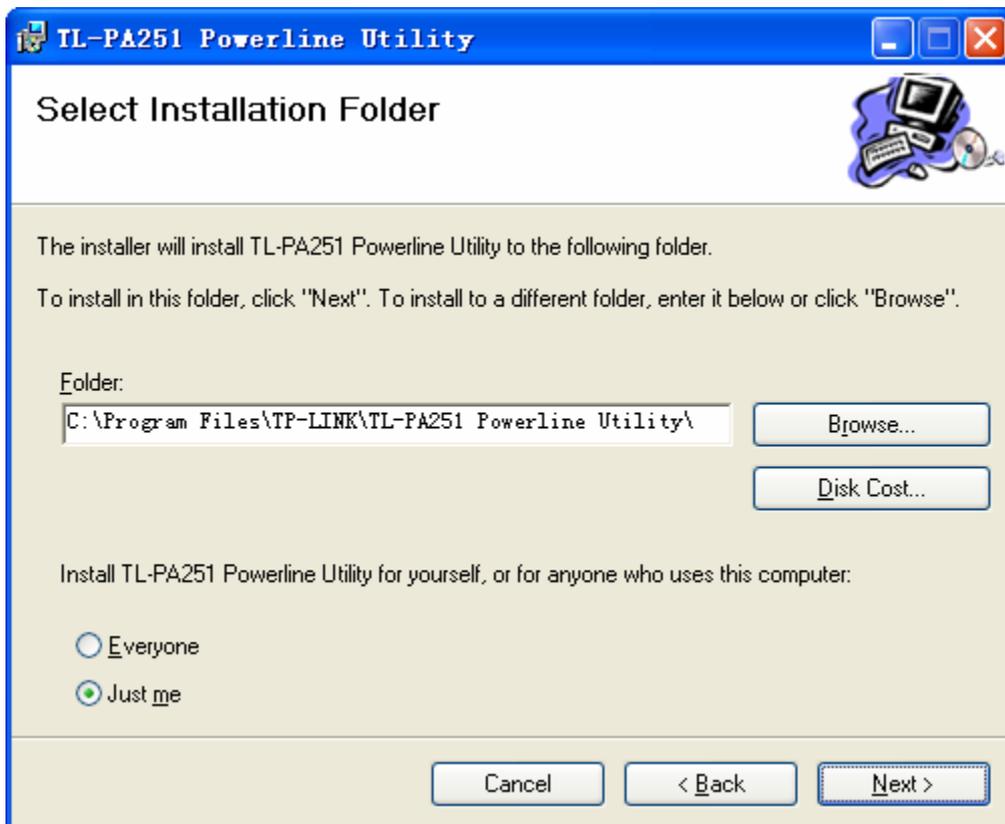
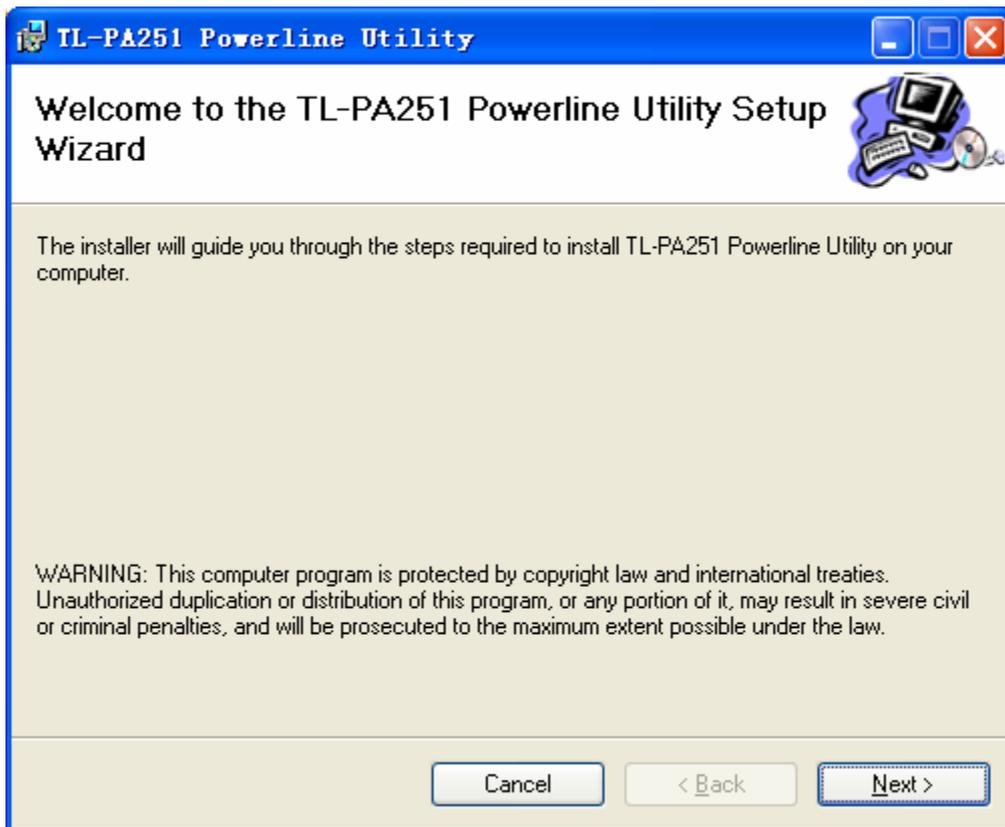
Please make sure that you have installed the **WinPcap** (the version of which should be beyond 4.1.1 inclusive) on your computer before installing the Management Utility. The **WinPcap** can be found on the provided Resource CD.

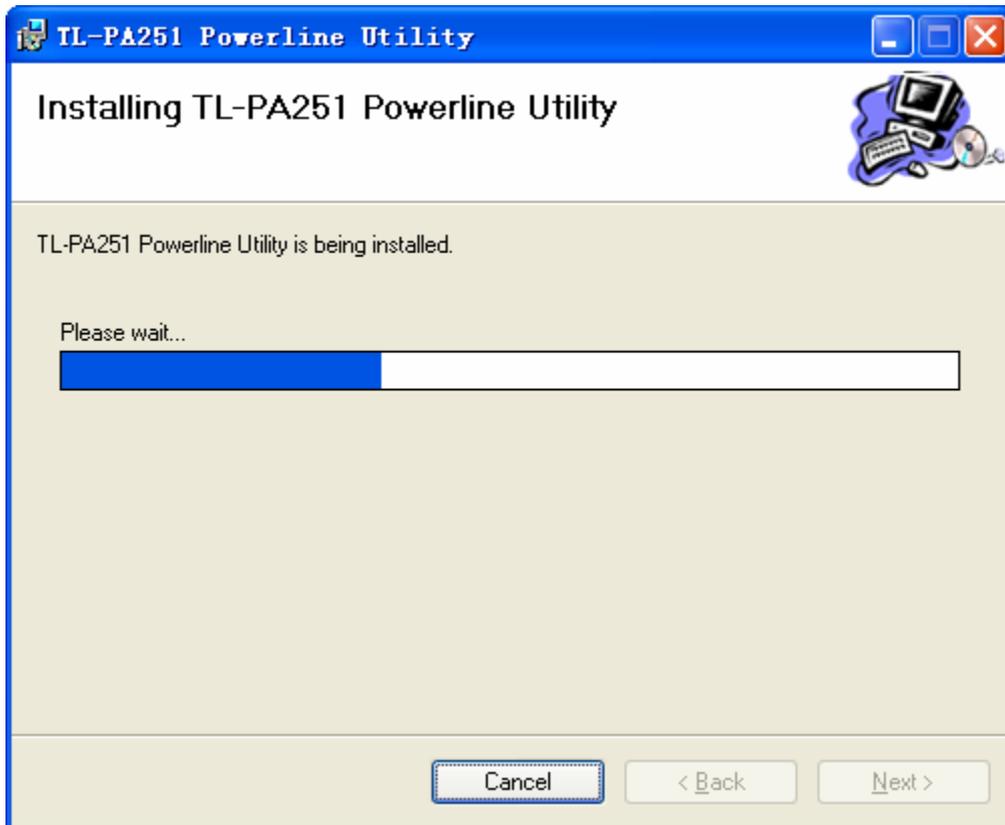
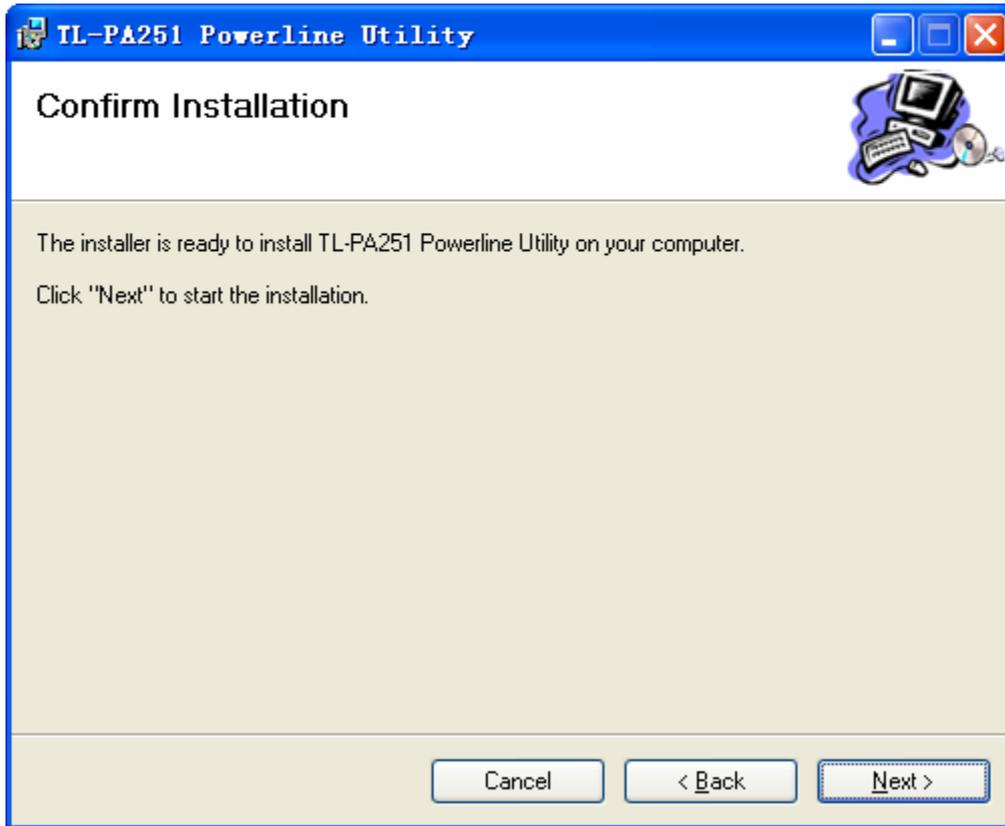
Take the following procedures to properly install the provided Management Utility:

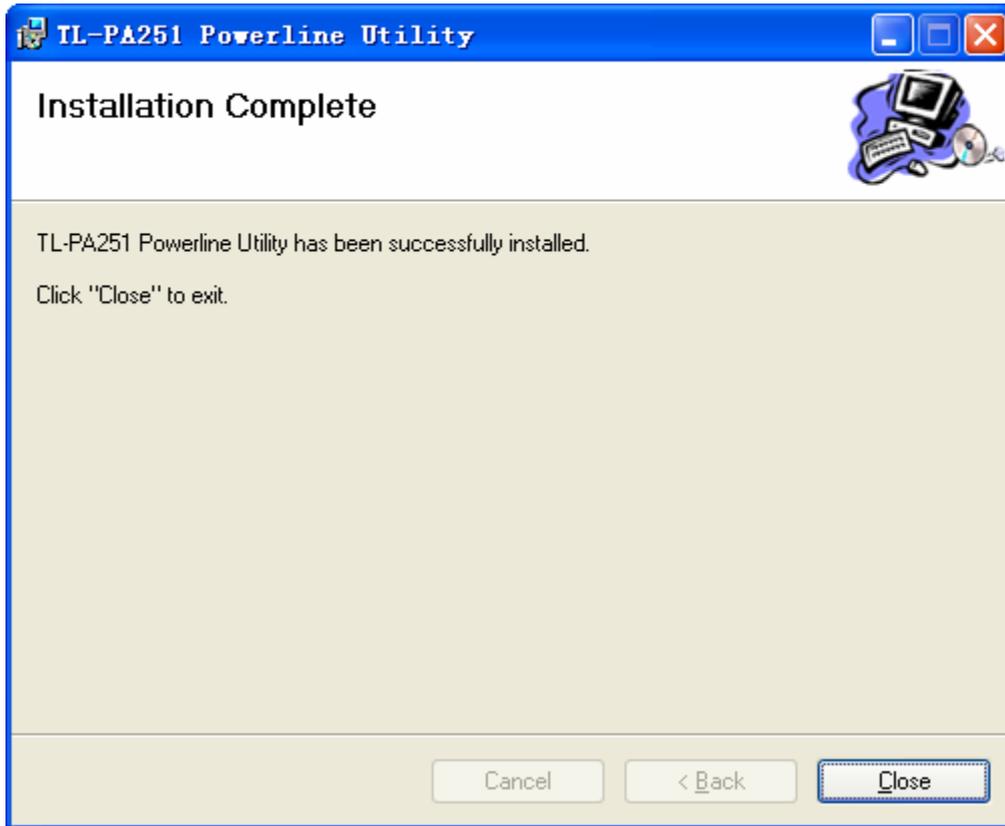
Step 1: Insert the Resource CD into your CD-ROM drive, and then the following Setup Wizard will automatically pop up on your computer's screen.



Step 2: Select **TL-PA251** and click **Management Utility** and the program installation process will carry out and copy all the necessary files to your system. Follow the instruction step by step to finish the installation.







Step 2: After the installation, a shortcut to the “TL-PA251 Powerline Utility” application icon is provided on the windows desktop.

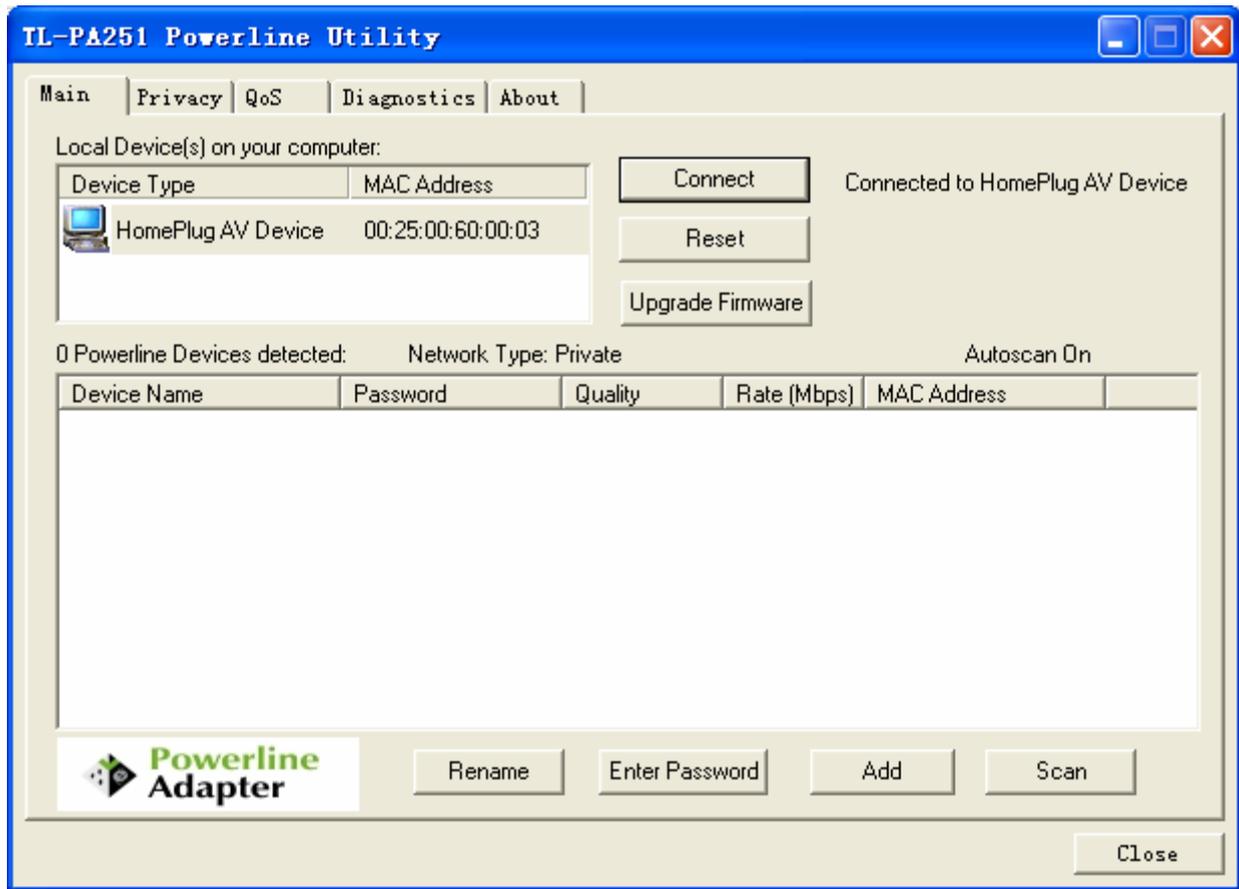


Chapter 4 Using The Management Utility

After you'd successfully installed the Powerline Adapter hardware and Management Utility software, you can set up or configure the devices according to your need.

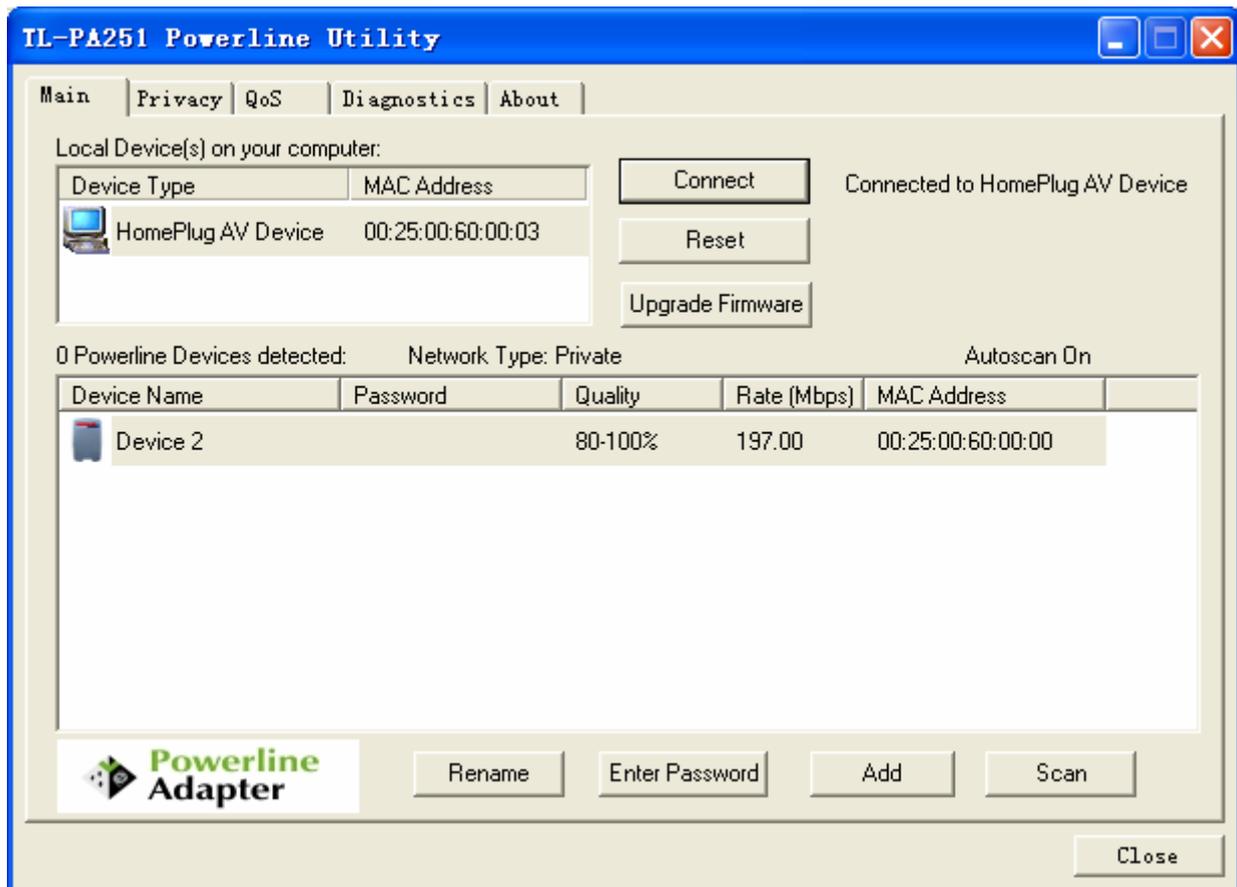
This Powerline Adapter Configuration Utility enables the users to identify powerline devices on the powerline network, measures data rate performance, ensures privacy and performs diagnostics by setting user defined secure powerline networks.

Double click on the “TL-PA251 Powerline Utility” from your windows desktop, the following screen will display. This Management Utility consists of a set of five property sheets, viz., “Main”, “Privacy”, “QoS”, “Diagnostics” and “About”.

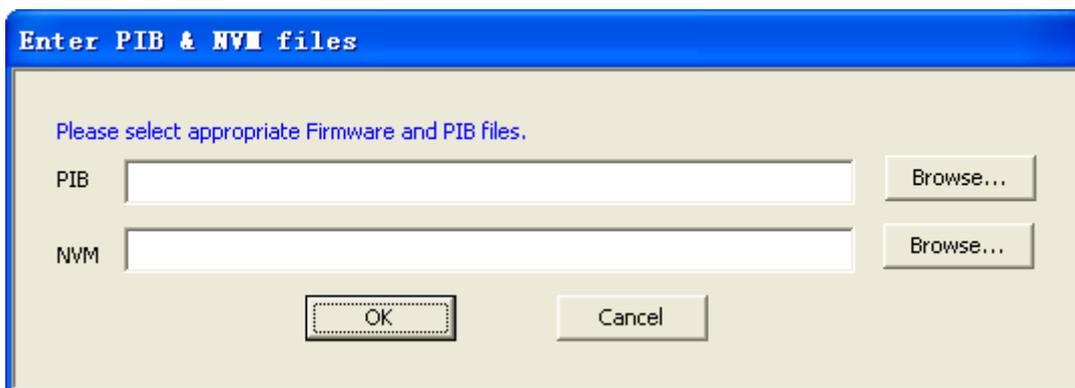


4.1 Main

The **Main** tab shows all the Powerline Adapters that are logically connected to the current computer where the Management Utility is running.



- **Local Device(s) on your computer:** This shows all local Powerline Ethernet Adapter found connected to the computer’s LAN card. In most cases, only one device will display in this panel. Click and select the local device shown on the screen then click “**Connect**” tab to manage the Powerline Ethernet Adapter. The status message will be shown above the “**Connect**” button indicates that your PC is connected to the same device. Once the chosen Powerline Ethernet Adapter is properly connected, this Management Utility will automatically scan the power line periodically for any other existing powerline devices. You can upgrade the version of firmware for the device by clicking the **Upgrade Firmware** button which is shown as below.



- **PIB:** Parameter Information Block. It contains configuration values that establish device network identity, general capabilities and operational modes.
- **NVM:** None-volatile memory. It is used for upgrading the firmware.

If you want to upgrade the version of firmware for the device, please select appropriate Firmware and PIB files together. New firmware versions and PIB files are posted at <http://www.tp-link.com> and can be downloaded for free.

 **Note:**

The parameter information of PIB will restore to the factory defaults after resetting the PLC.

To upgrade the device's firmware, follow these instructions:

1. Download PIB file and firmware upgrade file from TP-LINK website (<http://www.tp-link.com>).
2. Enter the path name or click **Browse...** to select the downloaded files on the computer into the corresponding blanks.
3. Click the **OK** button.

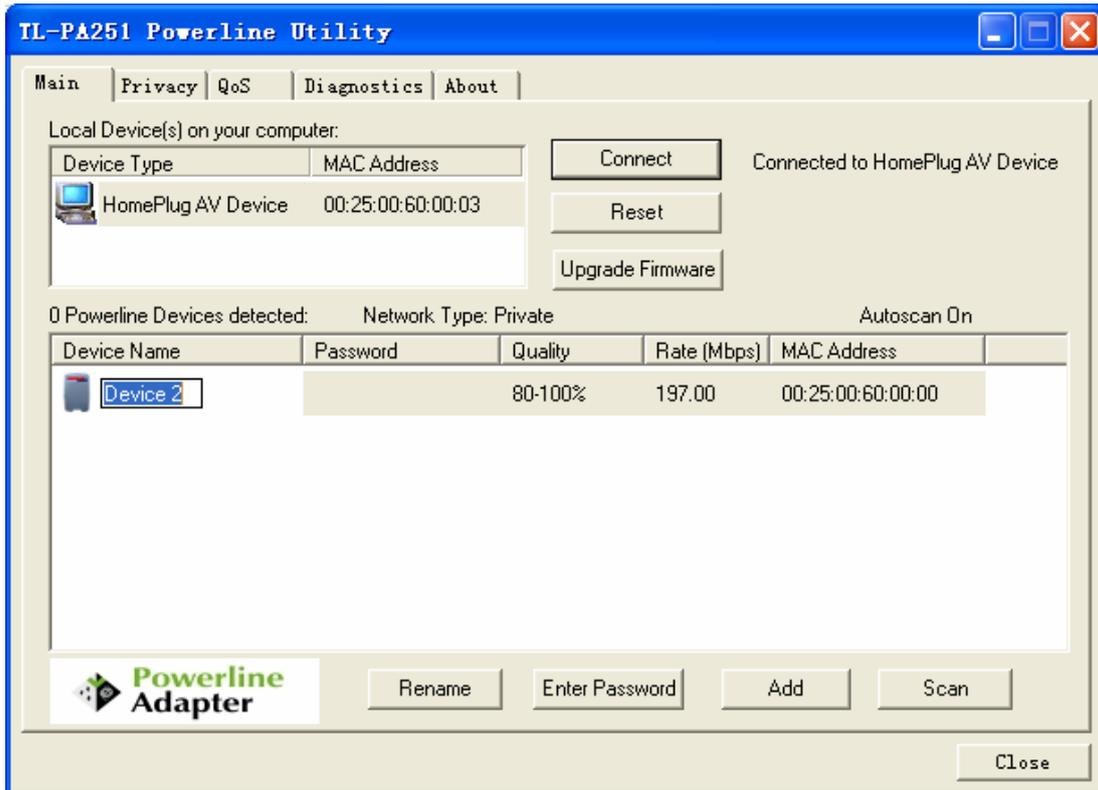
 **Note:**

Do not turn off the device while the firmware is being upgraded. The device will reboot after the Upgrading has been finished.

- **“x” Powerline Devices detected:** This displays all the Powerline Adapter found on the current logical network. “x” shows the number of remote Powerline Adapter discovered by this Management Utility.
- **Network Type:** Displays the type of logical network: **“Public”** or **“Private”**.
- **Autoscan:** Shows the scanning status (Default is **“ON”**).
 - **Device Name:** Shows the default device name. One may redefine or change the name by clicking on the name and editing in place or by clicking the **“Rename”** button.
 - **Password:** Shows the current password of the Powerline Adapter.
 - **Quality:** Shows the quality of the Powerline Adapter connection.
 - **Rate (Mbps):** Shows the current transmission rate of the selected Powerline Adapter.
 - **MAC Address:** Shows the Powerline Adapter's MAC address.
- **Rename:** Click to change the name of the selected Powerline Adapter.
- **Enter Password:** Shows the supplied Powerline Adapter's password (Initially left blank). To set the Powerline Adapter password (Which is required when creating a private network), click and select the device shown in the lower panel and click on the **“Enter Password”** button. Follow the pop-up dialog box to complete your password setting.
- **Add:** Click this button to add a remote Powerline Adapter to your network that is not on the lower panel displayed list. You will advice to locate the passwords for all Powerline Adapter you wish to manage and add them to the local logical network by clicking the **“Add”** button. Follow the pop-up dialog box to complete your setting.
- **Scan:** Click the **“Scan”** button to perform an immediate search of the Powerline Adapter connected to the computer. The Management Utility will automatically perform the scanning process and update the display every few seconds by default.

4.1.1 Rename

This Management Utility allows you to change the name of the listed Powerline Adapter. Click and select the Powerline Adapter you wish to change from the list, then click on the **“Rename”** tab and edit in the place to change the name.



4.1.2 Enter Password

Enter the password of the remote Powerline Adapters, and then you can set the network name of these devices on **Privacy** configuration homepage. The password can be found on the back of the device.

Select the Powerline Adapter from the list, click the **Enter Password** button and then the following screen will display.

Enter your **Password** (Take note of the password format) and click “**OK**” after setup.



 **Note:**

The Powerline Adapter device must be present on the power line (plugged in) in order for the password to be confirmed and added to the network. If the Powerline Adapter device could not be located, a warning message will be shown.

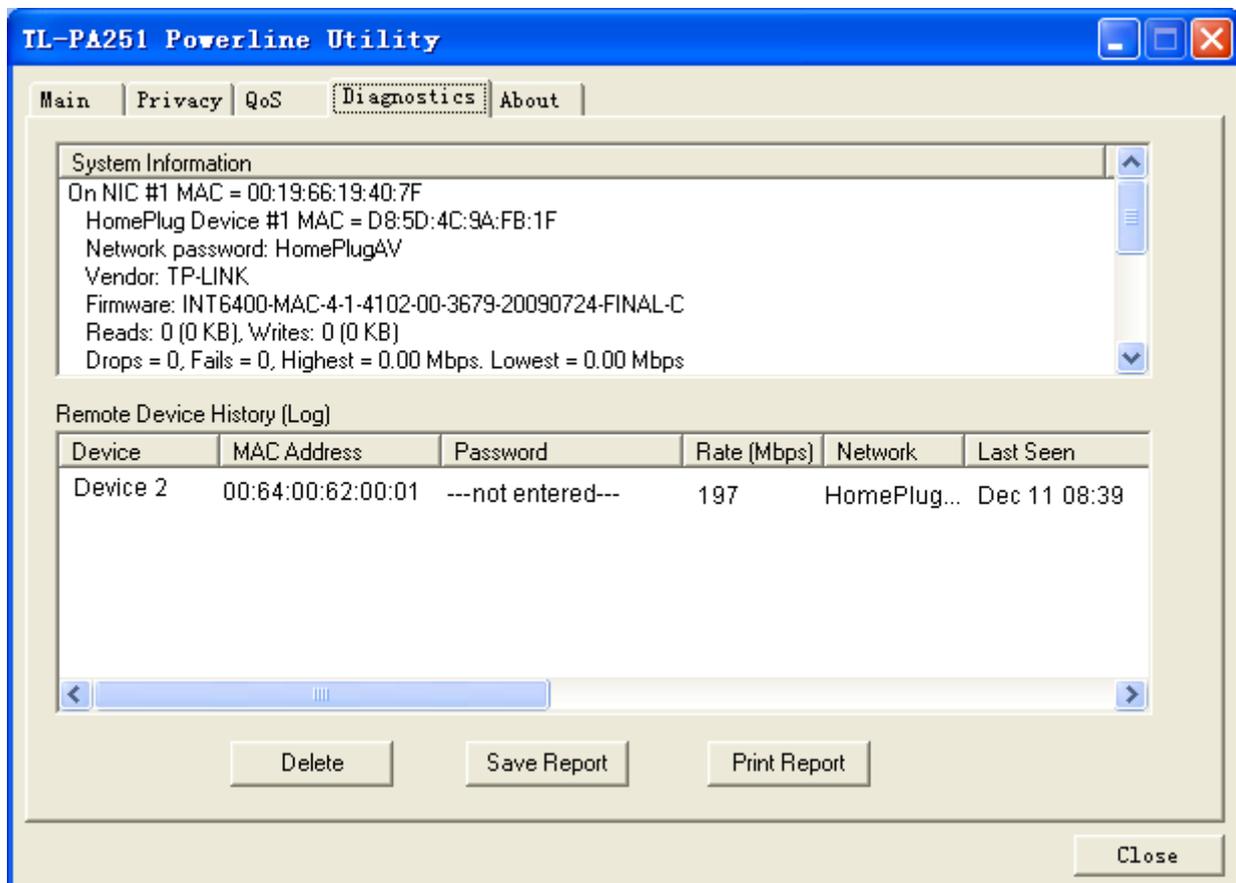
4.1.3 Add Device

The following dialog will box pop up when clicking the “Add” button under **Main** configuration homepage. The dialog box allows you to enter both the selected device’s name and password. Note that the Powerline Adapter must be present on the power grid in order to activate the set password and add this powerline adapter to the local network.

Enter your **Device Name** and **Password** (Take note to the password format) and click “OK” after setup.

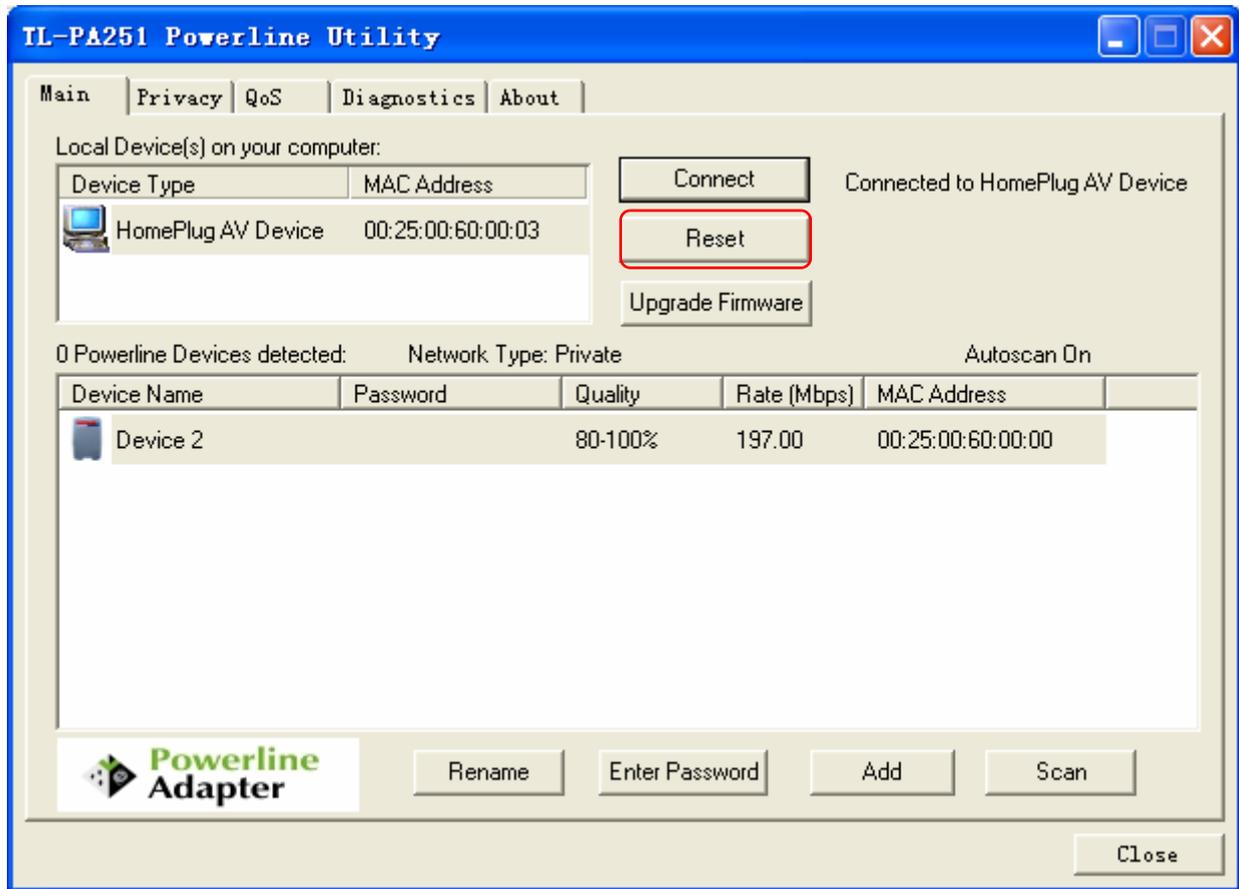


The following screen will display after the naming and password setting process, which is also the **Diagnostics** configuration homepage.



4.1.4 Reset

This Management Utility allows you to reset the Powerline Adapter to its default settings by clicking the **Reset** button on the **Main** page.



4.2 Privacy

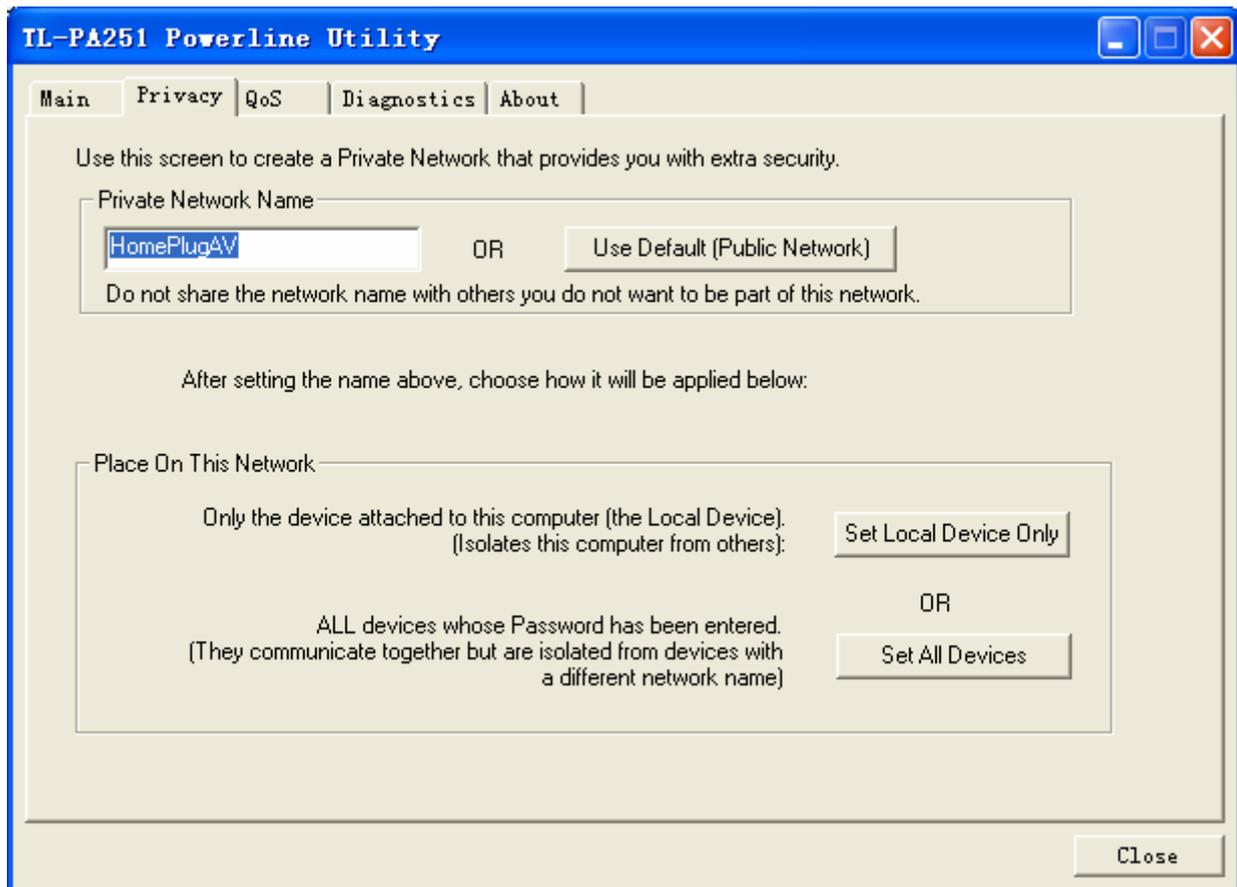
The **Privacy** configuration page provides a means for managing the local network and providing additional security for the logical network and also to select the devices that has to be included in the network. All Powerline devices are shipped using a default logical network (network name), which is normally **“HomePlugAV”**.

The **Privacy** configuration homepage allows you to change the **Network Name** of the Powerline Adapter that is currently connected to this computer into a private network. Reset the private network to universal public network by clicking on the **“Use Default (Public Network)”** or entering/editing **“HomePlugAV”** under column of **“Private Network Name”** is always available.

Note that every Powerline Adapter on your home network **MUST** have the same **Network Password** for connectivity to be established throughout your home.

 **Note:**

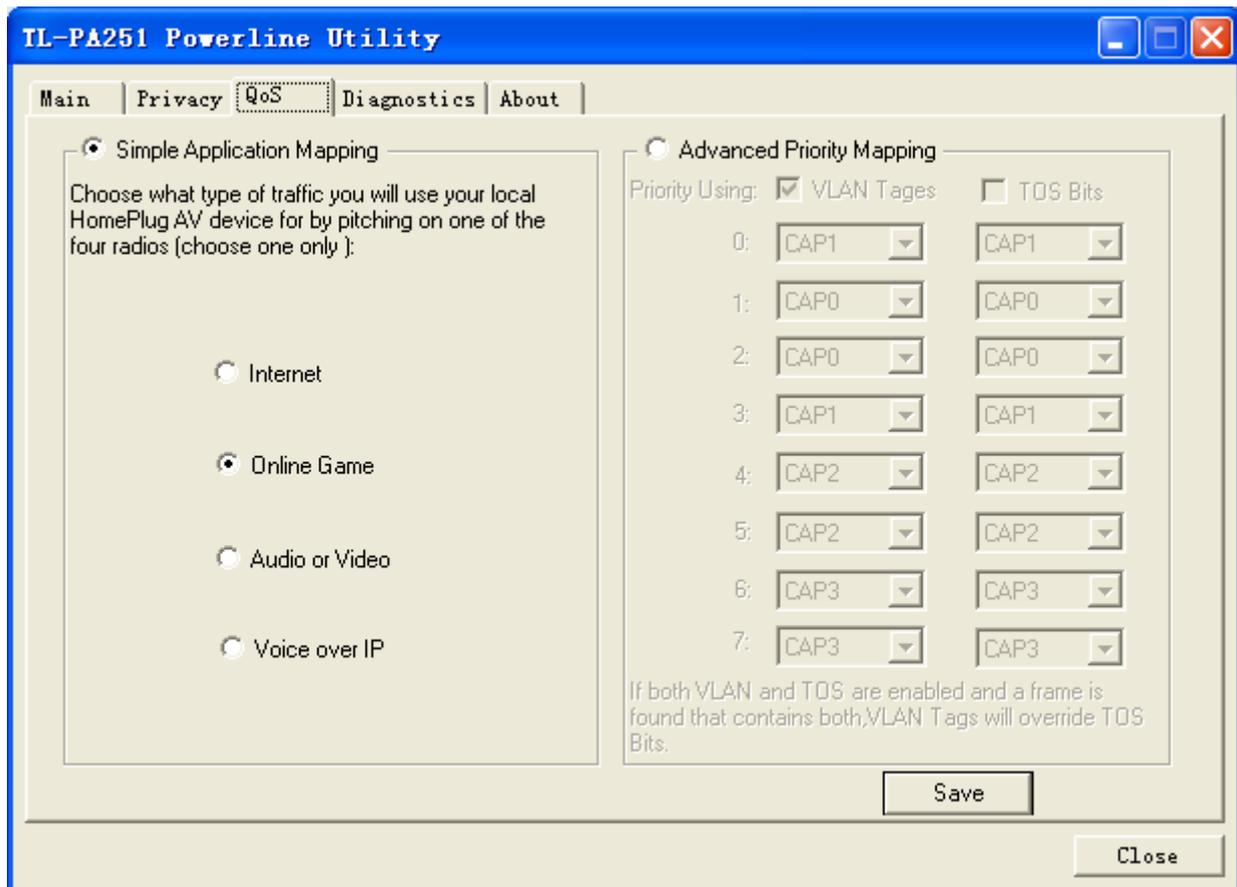
Changing the network name to anything other than **“HomePlugAV”** will show the network type on the Main configuration screen as **“Private”**.



- **Set Local Device Only:** Click this tab to change the network name of the local Powerline Adapter device only. All Powerline Adapter devices seen on the **Main** configuration homepage prior to this will be no longer present in the new network, effectively making the local devices not to communicate to the devices which were in the old logical network. Devices previously set up with the same logical network (same network name) will appear in the device list afterward selecting this option.
- **Set All Devices:** The **Set All Devices** button is used to change the logical network of all devices that appear on the **Main** configuration homepage whose Device's Password had been entered for the same logical network. (The password can be entered on **Main** configuration homepage). A dialog window will appear to report the success of this operation. For devices whose device passwords were not entered, this operation will fail and will report a failure message.

4.3 QoS

The third tabbed window, labeled "QoS" for Quality of Service, is shown in the following figure.



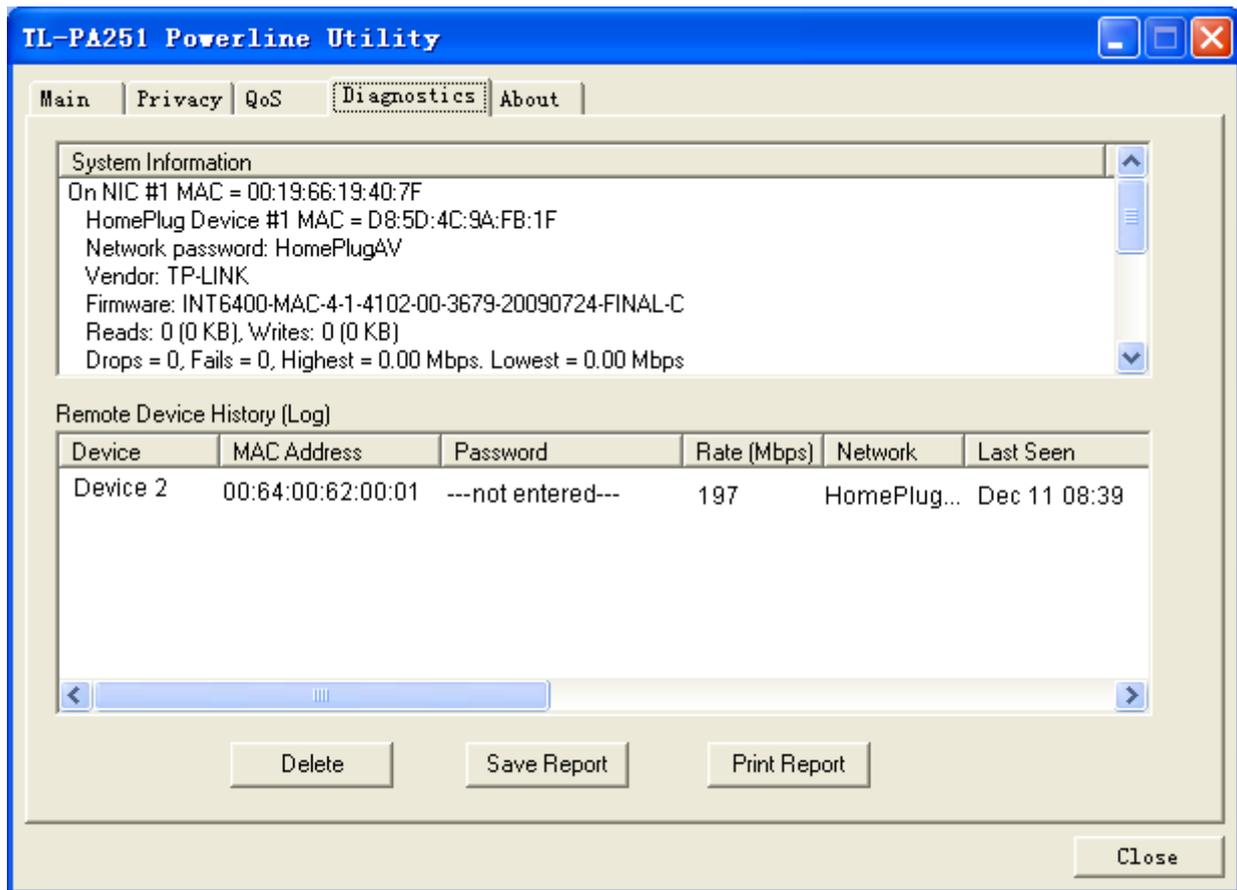
QoS requirements are different for various data types such as streaming video or music, voice and raw data. To provide higher QoS for streaming data, priority levels can be set using tags at the beginning of data frames. Virtual Local Area Network (Vlan) 802.1p priority tags on Ethernet frames are used to specify 8 (0~7) levels of ‘user priority’. Homeplug AV powerline allows for 4 levels of Channel Access Priority CAP(0-3)). Therefore, the 8 levels of VLAN Ethernet tags must be mapped to the 4 levels of CAP priority, where CAP 3 is the highest priority and CAP 0 is the lowest. CAP 3 priority might be used for voice and network management frames, CAP 2 is used for streaming video while CAP 1 and CAP 0 are used for data. Mapping VLAN tags to CAP levels is easily done using the VLAN Priority Mapping function on the QoS tab window.

Simple Application Mapping: The group allows you to choose what type of traffic with the highest user priority you will use your local HomePlug device for by pitching on one of the following four radios. Please select the radio type according to your demand.

Advanced VLAN Priority Mapping: The group sets VLAN priority to CAP mapping and default priority. Note that in HomePlug, CAP 3 is the highest priority while CAP 0 is the lowest priority. The values shown in VLAN Tags Priority are the default settings for the first running.

4.4 Diagnostics

The **Diagnostics** homepage shows the **System Information** and **Remote Device History** of all remote devices seen over a period of time which are only readable. Click on the “**Diagnostics**” tab and the following screen will display.



The **Diagnostics** information displayed can be saved to a text file. One can email the saved text file to the local supplier when there's technical support require or print the saved text file as reference during a technical support conference.

The **Upper Panel** shows technical data concerning software and hardware present on the host computer which were used to communicate over Powerline Adapter on the Powerline network. It may include the following:

- Operating System Platform/Version
- Host Network Name
- User Name
- MAC Address of all NICs (Network interface card) connected to the host
- Identify versions of all Driver DLLs and Libraries used (NDIS) and optionally
- MAC addresses of all devices connected locally to the host

Click the **"Delete"** tab when there's Powerline Adapter devices no longer part of the network.

The **Lower Panel** contains a history of all remote Powerline Adapter devices seen on the computer over a certain period of time. All devices that were on the powerline network are listed here along with a few other parameters. Powerline Adapter devices that are active on the current logical network will show a transfer rate in the Rate column; devices on other networks, or devices that may no longer exist are shown with a **"?"** in the Rate column. The following remote Powerline Adapter devices information is available from the diagnostics screen:

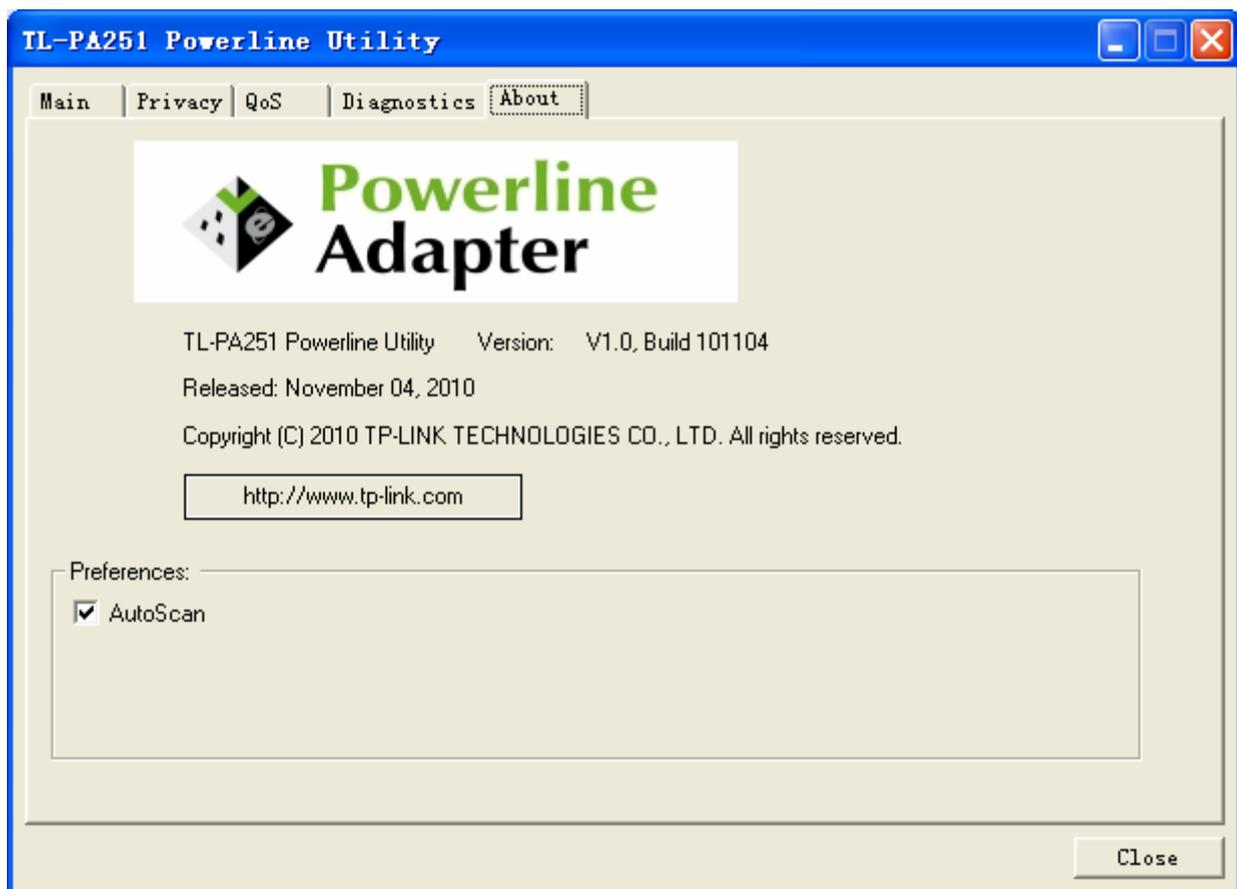
- Device Alias Name
- Device MAC Address
- Device Password

- Device Last known rate
- Device Last Known Network name
- Date device last seen on the network

The diagnostics information displayed may be saved to a text file for later use, or can be printed for reference for a technical support call. Powerline Adapter devices, which are not part of the network anymore, can be deleted using the delete button. A dialog window pops up with a confirmation message if we try to delete a device whose password has been entered.

4.5 About

The **About** homepage shows the Management Utility software version.



- **AutoScan:** When it is enabled (Place a check), the Management Utility will automatically scan for Powerline Adapter devices on the local network every few seconds and updated the scanning information on the **Main** configuration homepage.

Chapter 5 Advance Feature: How to Use the Pair buttons

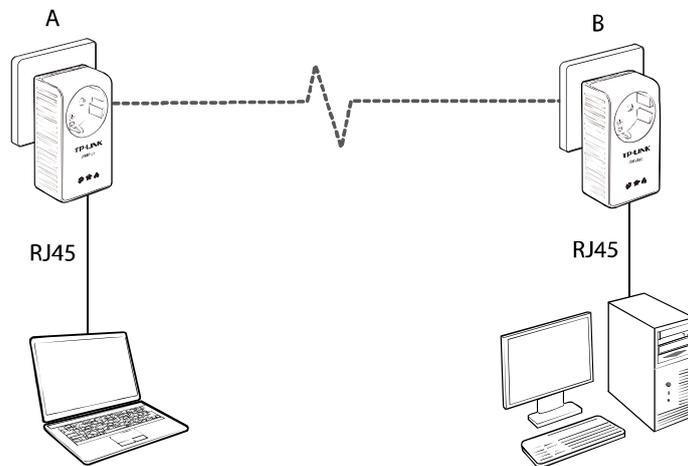
5.1 Pair (Secure with 128 bits-AES)

The Homeplug AV standard uses 128-bit AES (Advanced Encryption Standard) to safely transmit data between powerline adapters. For the powerline adapters to communicate with each other they all need to use the same Network Membership Key (NMK). Otherwise, they cannot unscramble the encrypted data sent in the powerline network.

The **Pair** button allows you to set up a secure powerline connection with other HomePlug AV compliant powerline devices which also support the **Pair** feature.

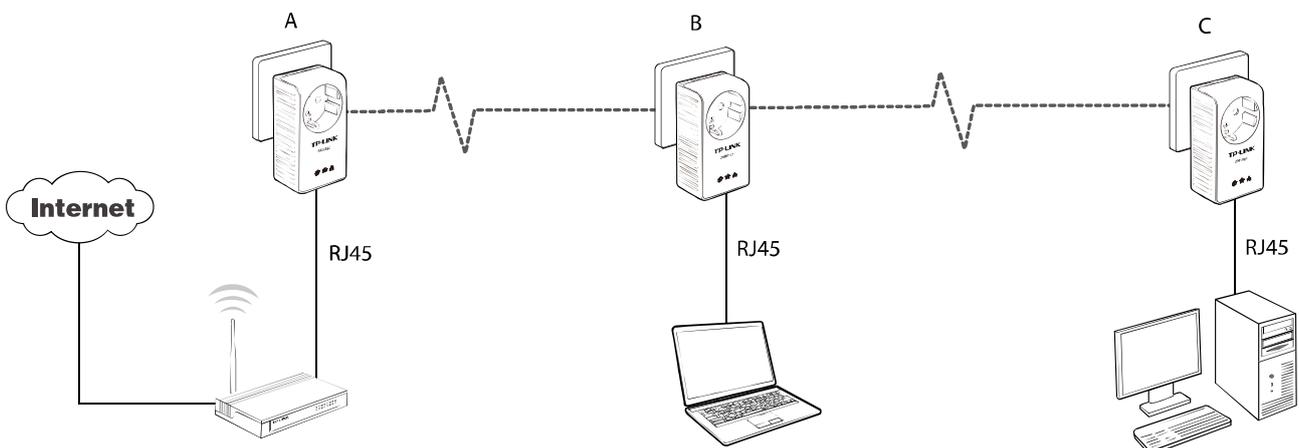
5.2 Set Up a Powerline AV Network with the Pair button

You can connect a number of devices on a powerline network, but you can use the **Pair** button on only two devices at a time.



Create a Powerline network using the Pair button:

- Step 1.** Press and hold the Pair button of Powerline adapter A for 3 to 8 seconds, the Power LED will start flashing.
- Step 2.** Press and hold the Pair button of Powerline adapter B for 3 to 8 seconds, the Power LED will start flashing.
(This must be done within 120 seconds after pressing the Pair button of Powerline adapter A.)
- Step 3.** Wait for about 60 seconds while your Powerline adapter A and B are connecting. The Power LED on both adapters will stop flashing and become solid light when the connection is made.



Join an existing Powerline AV Network:

Powerline adapter A and Powerline adapter B form a HomeplugAV Network, Powerline adapter C wants to join this network.

- Step 1.** Press and hold the Pair button on Powerline adapter C for 3 to 8 seconds.
- Step 2.** Press and hold the Pair button on Powerline adapter A/B for 3 to 8 seconds.
(This step must be taken within 120 seconds after step 1 is finished.)
- Step 3.** Wait for about 60 seconds while your Powerline adapters are connecting. The Power LED on Powerline adapter A/B and C will stop flashing and become solid light when the connection is made.

 **Note:**

The sequence of Step 1 and Step 2 can be exchanged.

Leave an existing Powerline AV Network:

As the figure above shown, Powerline adapter A, B and C have formed a HomeplugAV Network. The user wants to remove one device (Powerline adapter A) from this network.

- Step 1.** Press and hold the Pair button on Powerline adapter A for at least 10 seconds. Powerline adapter A will reset and restart. (The Power LED of Powerline adapter A will momentarily extinguish during resetting, flash during restarting then illuminate steadily.)
- Step 2.** Wait for the reset to complete.

Appendix A: Troubleshooting Guide

The Troubleshooting Guide provides answers to common problems regarding the Powerline Adapter.

1. The Power LED does not light up.

Ans. Check the following:

- a) Make sure that the Powerline Adapter is properly plugged into a power outlet.
- b) Make sure the power outlet is active (working) by plugging another electric device into it.
- c) Re-plug the Powerline Adapter to the power outlet. If the Power LED is still failed to light up, contact your local dealer for technical support.

2. The Ethernet LED does not light up.

Ans. Check the following:

1. Make sure that the Ethernet cable (RJ-45) is properly connected to the Powerline Adapter's Ethernet port.
2. Make sure that the other end of the Ethernet cable (RJ-45) is properly connected to the computer LAN card or to your Cable/xDSL Ethernet port.
3. Make sure your computer LAN card is properly installed and configured.
4. Make sure your Cable/xDSL broadband access is working and configured correctly.
5. Contact your local dealer for technical support if the Ethernet LED is still failed to light up after the above procedures.

3. The Powerline LED does not light up.

Ans. Check the following:

1. Double click to enable the Management Utility and click the “**Scan**” tab under the **Main** configuration homepage. The Management Utility will automatically detect all other Powerline Adapters on your powerline network.
2. Try to plug a second Powerline Adapter into a nearby power outlet and check whether the Powerline LED lights up or not.
3. Contact your local dealer for technical support if the Powerline LED is still failed to light up after the above procedures.

Appendix B: Specifications

General	
Standards	HomePlug AV, IEEE802.3, IEEE802.3u
Modulation Technology	OFDM
Protocol Support	TCP/IP
Data Rate	200Mbps
Range	300meters in house
LEDs	Power, Powerline, Ethernet
Interface	1 Ethernet LAN Port 1 Integrated Electrical Socket
Encryption	128-bit AES
Power Consumption	3W
Power Output	10A Max Load
Physical and Environment	
Dimensions (L×W×H)	4.3x2.3x1.7 inch (110×58×43mm) (exclude power plug) 4.3x2.3x3.1 inch (110×58×80mm) (include power plug)
Operating Temperature	0°C~40°C (32°F~104°F)
Operating Humidity	10%~90%RH, Non-condensing